

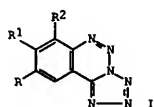
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L3 ANSWER 31 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1981:604007 CAPLUS
 DOCUMENT NUMBER: 95:204007
 TITLE: Tetrazolo[4,5-c][1,2,3]benzotriazines
 INVENTOR(S): Britton, Thomas C.; Wagner, Eugene R.
 PATENT ASSIGNEE(S): Dow Chemical Co., USA
 SOURCE: U.S., 3 pp.
 CODEN: USOXAM

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

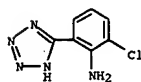
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| US 4286090 | A | 19810825 | US 1980-121758 | 19800215 |
| PRIORITY APPLN. INFO.: US 1980-121758 A 19800215 | | | | |



AB Title compds. I (R, R1, and R2 independently are H, alkyl, alkoxy, halo, trihalomethyl, NO2) were prepared from 5-(2-aminophenyl)tetrazole (II) and II deriva. I showed explosive properties. Thus, NaNO2 in water was added to II, HCl, water, and EtOH, and the mixture was stirred in an ice bath to give I (R = R1 = R2 = H).

IT 26803-78-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (disazotization of, tetrazolobenzotriazine derivative from)

RN 26803-78-1 CAPLUS
 CN Benzenamine, 2-chloro-6-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



L3 ANSWER 33 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1975:4298 CAPLUS
 DOCUMENT NUMBER: 82:4298
 TITLE: Bronchodilating tetrazolo[1,5-c]quinazolin-5(6H)-ones
 INVENTOR(S): Wagner, Eugene R.
 PATENT ASSIGNEE(S): Dow Chemical Co.
 SOURCE: U.S., 2 pp.
 CODEN: USOXAM

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

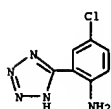
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| US 3038126 | A | 19740924 | US 1972-297466 | 19721013 |
| PRIORITY APPLN. INFO.: US 1972-297466 A 19721013 | | | | |

GI For diagram(s), see printed CA Issue.

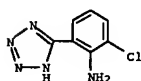
AB Eleven tetrazoloquinazolinones I (R = H, Cl, MeO, NO2; R1 = H, Cl, MeO, CF3; R2 = H, Cl; RR1 = OCH2O, R2 = H) were prepared by cyclization of the tetrazoles II with Cl2CO. Thus, Cl2CO was bubbled through II (R-R2 = H) in C6H6 to give I (R-R2 = H), which was 108% as effective as aminophylline and had 70% block against bronchoconstriction at 10 mg/kg guinea pig.

IT 26668-55-3 26803-78-1 54013-18-2
 54013-19-3 54013-21-7 54013-22-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cycloaddition reaction of, with phosgene, tetrazoloquinazolinones from)

RN 26668-55-3 CAPLUS
 CN Benzenamine, 4-chloro-2-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



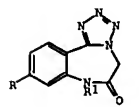
RN 26803-78-1 CAPLUS
 CN Benzenamine, 2-chloro-6-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



RN 54013-18-2 CAPLUS
 CN Benzenamine, 5-chloro-2-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)

L3 ANSWER 32 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1977:552154 CAPLUS
 DOCUMENT NUMBER: 87:152154
 TITLE: Synthesis of 5H-tetrazolo[1,5-d][1,4]benzodiazepin-6(7H)-ones
 AUTHOR(S): Peet, Norton P.; Sunder, Shyam
 CORPORATE SOURCE: Pharm. Res. Dev.-Med. Chem., Dow Chem. Co., Midland, MI, USA
 SOURCE: Journal of Heterocyclic Chemistry (1977), 14(4), 561-6
 CODEN: JHTCAD; ISSN: 0022-152X

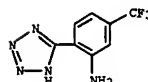
DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 87:152154
 GI



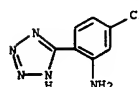
AB Tetrazolobenzodiazepinones I (R = H, MeO, CF3, R1 = H; R = H, R1 = Ph) were prepared from 5-(o-aminophenyl)tetrazoles and BrCH2COBr. Several alternate methods for the synthesis of II were attempted without success. Chemical evidence for the structural assignments includes the transformation of I (R = R1 = H) to 6-(2,2-dimethylhydrazino)-5H-tetrazolo[1,5-d][1,4]benzodiazepine.

IT 54013-22-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclization of, with bromoacetyl bromide, tetrazolobenzodiazepinone from)

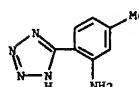
RN 54013-22-8 CAPLUS
 CN Benzenamine, 2-(1H-tetrazol-5-yl)-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)



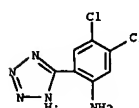
L3 ANSWER 33 OF 38 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 54013-19-3 CAPLUS
 CN Benzenamine, 5-methyl-2-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



RN 54013-21-7 CAPLUS
 CN Benzenamine, 4,5-dichloro-2-(1H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)



RN 54013-22-8 CAPLUS
 CN Benzenamine, 2-(1H-tetrazol-5-yl)-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

